



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road, San Jose, CA 95138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: I1106-01 Product Affected: 89H32NT24G2 (Refer to Attachment I) Date Effective: October 11, 2011	DATE: July 11, 2011	MEANS OF DISTINGUISHING CHANGED DEVICES: <input checked="" type="checkbox"/> Product Mark Change in Ordering Part Number <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other
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Contact: PS Tow Title: Director, Product Assurance Phone #: (408) 284-8206 Fax #: (408) 284-1450 E-mail: pstow@idt.com	Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Contact your local IDT sales representative for sample requests.
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DESCRIPTION AND PURPOSE OF CHANGE:

<input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input checked="" type="checkbox"/> Other - Die Revision Change	<p>This notification is to advise our customers that IDT has qualified a new die revision to address the device errata. The device die revision will change from "ZB" to "ZC". There will be a change in ordering part number and device top mark.</p> <p>There is no change in die technology/process.</p> <p>Please see attachment for details.</p>
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RELIABILITY/QUALIFICATION SUMMARY:
See attached data. There is no change in die technology/process.

CUSTOMER ACKNOWLEDGMENT OF RECEIPT:
 IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.
 IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: _____	<input type="checkbox"/> <i>Approval for shipments prior to effective date.</i>
Name/Date: _____	E-Mail Address: _____
Title: _____	Phone # /Fax #: _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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PCN Type: Die Revision Change

Data Sheet Change: No

Detail of Change:

This notification is to advise our customers that IDT has qualified a new die revision to address the device errata. The device die revision will change from "ZB" to "ZC". There will be a change in ordering part number and device top mark as shown in Table 1.

Table 1

Old Ordering Part Number	New Ordering Part Number	Old Ordering Part Number	New Ordering Part Number
89H12NT12G2ZBHL	89H12NT12G2ZCHL	89H24NT24G2ZBHLG8	89H24NT24G2ZCHLG8
89H12NT12G2ZBHL8	89H12NT12G2ZCHL8	89H24NT24G2ZBHLGI	89H24NT24G2ZCHLGI
89H12NT12G2ZBHLG	89H12NT12G2ZCHLG	89H24NT24G2ZBHLGI8	89H24NT24G2ZCHLGI8
89H12NT12G2ZBHLG8	89H12NT12G2ZCHLG8	89H24NT24G2ZBHLLI	89H24NT24G2ZCHLLI
89H12NT12G2ZBHLGI	89H12NT12G2ZCHLGI	89H24NT24G2ZBHLI8	89H24NT24G2ZCHLI8
89H12NT12G2ZBHLGI8	89H12NT12G2ZCHLGI8	89H24NT6AG2ZBHL	89H24NT6AG2ZCHL
89H12NT12G2ZBHLLI	89H12NT12G2ZCHLLI	89H24NT6AG2ZBHL8	89H24NT6AG2ZCHL8
89H12NT12G2ZBHLI8	89H12NT12G2ZCHLI8	89H24NT6AG2ZBHLG	89H24NT6AG2ZCHLG
89H16NT16G2ZBHL	89H16NT16G2ZCHL	89H24NT6AG2ZBHLG8	89H24NT6AG2ZCHLG8
89H16NT16G2ZBHL8	89H16NT16G2ZCHL8	89H24NT6AG2ZBHLGI	89H24NT6AG2ZCHLGI
89H16NT16G2ZBHLG	89H16NT16G2ZCHLG	89H24NT6AG2ZBHLGI8	89H24NT6AG2ZCHLGI8
89H16NT16G2ZBHLG8	89H16NT16G2ZCHLG8	89H24NT6AG2ZBHLLI	89H24NT6AG2ZCHLLI
89H16NT16G2ZBHLGI	89H16NT16G2ZCHLGI	89H24NT6AG2ZBHLI8	89H24NT6AG2ZCHLI8
89H16NT16G2ZBHLGI8	89H16NT16G2ZCHLGI8	89H32NT16BG2ZBHL	89H32NT16BG2ZCHL
89H16NT16G2ZBHLLI	89H16NT16G2ZCHLLI	89H32NT16BG2ZBHL8	89H32NT16BG2ZCHL8
89H16NT16G2ZBHLI8	89H16NT16G2ZCHLI8	89H32NT16BG2ZBHLG	89H32NT16BG2ZCHLG
89H16NT2G2ZBHL	89H16NT2G2ZCHL	89H32NT16BG2ZBHLG8	89H32NT16BG2ZCHLG8
89H16NT2G2ZBHL8	89H16NT2G2ZCHL8	89H32NT16BG2ZBHLGI	89H32NT16BG2ZCHLGI
89H16NT2G2ZBHLG	89H16NT2G2ZCHLG	89H32NT16BG2ZBHLLI	89H32NT16BG2ZCHLLI
89H16NT2G2ZBHLG8	89H16NT2G2ZCHLG8	89H32NT16BG2ZBHLI8	89H32NT16BG2ZCHLI8
89H16NT2G2ZBHLGI	89H16NT2G2ZCHLGI	89H32NT24AG2ZBHL	89H32NT24AG2ZCHL
89H16NT2G2ZBHLGI8	89H16NT2G2ZCHLGI8	89H32NT24AG2ZBHL8	89H32NT24AG2ZCHL8
89H16NT2G2ZBHLLI	89H16NT2G2ZCHLLI	89H32NT24AG2ZBHLG	89H32NT24AG2ZCHLG
89H16NT2G2ZBHLI8	89H16NT2G2ZCHLI8	89H32NT24AG2ZBHLG8	89H32NT24AG2ZCHLG8
89H16NT8BG2ZBHL	89H16NT8BG2ZCHL	89H32NT24AG2ZBHLGI	89H32NT24AG2ZCHLGI
89H16NT8BG2ZBHL8	89H16NT8BG2ZCHL8	89H32NT24AG2ZBHLLI	89H32NT24AG2ZCHLLI
89H16NT8BG2ZBHLG	89H16NT8BG2ZCHLG	89H32NT24AG2ZBHLI8	89H32NT24AG2ZCHLI8
89H16NT8BG2ZBHLG8	89H16NT8BG2ZCHLG8	89H32NT24BG2ZBHL	89H32NT24BG2ZCHL
89H16NT8BG2ZBHLGI	89H16NT8BG2ZCHLGI	89H32NT24BG2ZBHL8	89H32NT24BG2ZCHL8
89H16NT8BG2ZBHLGI8	89H16NT8BG2ZCHLGI8	89H32NT24BG2ZBHLG	89H32NT24BG2ZCHLG
89H16NT8BG2ZBHLLI	89H16NT8BG2ZCHLLI	89H32NT24BG2ZBHLG8	89H32NT24BG2ZCHLG8



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Old Ordering Part Number	New Ordering Part Number	Old Ordering Part Number	New Ordering Part Number
89H16NT8BG2ZBHLI8	89H16NT8BG2ZCHLI8	89H32NT24BG2ZBHLGI	89H32NT24BG2ZCHLGI
89H22NT16G2ZBHL	89H22NT16G2ZCHL	89H32NT24BG2ZBHLI	89H32NT24BG2ZCHLI
89H22NT16G2ZBHL8	89H22NT16G2ZCHL8	89H32NT24BG2ZBHLI8	89H32NT24BG2ZCHLI8
89H22NT16G2ZBHLG	89H22NT16G2ZCHLG	89H32NT8AG2ZBHL	89H32NT8AG2ZCHL
89H22NT16G2ZBHLG8	89H22NT16G2ZCHLG8	89H32NT8AG2ZBHL8	89H32NT8AG2ZCHL8
89H22NT16G2ZBHLGI	89H22NT16G2ZCHLGI	89H32NT8AG2ZBHLG	89H32NT8AG2ZCHLG
89H22NT16G2ZBHLGI8	89H22NT16G2ZCHLGI8	89H32NT8AG2ZBHLG8	89H32NT8AG2ZCHLG8
89H22NT16G2ZBHLI	89H22NT16G2ZCHLI	89H32NT8AG2ZBHLGI	89H32NT8AG2ZCHLGI
89H22NT16G2ZBHLI8	89H22NT16G2ZCHLI8	89H32NT8AG2ZBHLGI8	89H32NT8AG2ZCHLGI8
89H24NT24AG2ZBHL	89H24NT24AG2ZCHL	89H32NT8AG2ZBHLI	89H32NT8AG2ZCHLI
89H24NT24AG2ZBHL8	89H24NT24AG2ZCHL8	89H32NT8AG2ZBHLI8	89H32NT8AG2ZCHLI8
89H24NT24AG2ZBHLG	89H24NT24AG2ZCHLG	89H32NT8BG2ZBHL	89H32NT8BG2ZCHL
89H24NT24AG2ZBHLG8	89H24NT24AG2ZCHLG8	89H32NT8BG2ZBHL8	89H32NT8BG2ZCHL8
89H24NT24AG2ZBHLGI	89H24NT24AG2ZCHLGI	89H32NT8BG2ZBHLG	89H32NT8BG2ZCHLG
89H24NT24AG2ZBHLI	89H24NT24AG2ZCHLI	89H32NT8BG2ZBHLG8	89H32NT8BG2ZCHLG8
89H24NT24AG2ZBHLI8	89H24NT24AG2ZCHLI8	89H32NT8BG2ZBHLGI	89H32NT8BG2ZCHLGI
89H24NT24G2ZBHL	89H24NT24G2ZCHL	89H32NT8BG2ZBHLGI8	89H32NT8BG2ZCHLGI8
89H24NT24G2ZBHL8	89H24NT24G2ZCHL8	89H32NT8BG2ZBHLI	89H32NT8BG2ZCHLI
89H24NT24G2ZBHLG	89H24NT24G2ZCHLG	89H32NT8BG2ZBHLI8	89H32NT8BG2ZCHLI8

The new die revision will address the known errata item as shown in Table 2.

Table 2

Errata Item	Effected Devices	"ZB" Revision	"ZC" Revision
DMA Functionality	All	Specific address routed TLPs erroneously blocked by the DMA function	Fixed



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Qualification Test Plan and Result:

Qualification Plan #: QI-10-02
Qual Vehicle: 89H32NT24G2

Test Description	Test Method (Latest specs in effect)	Test Results (SS / Rej)
Infant Mortality (EFR) 125°C@40 Hrs	JESD22A-108-B	50/0
Operating Lifetest (Dynamic) 125°C@1000 Hrs *	JESD22A-108B	446/0
ESD: Human Body Model @ 2000V	JESD22 A114-E	3/0
ESD: Charged Device Model @ 500V	JESD22-C101	3/0
ESD: Machine Model @ 200V	JESD22, A115	3/0
Latch-up	JESD78	6/0

Note: * Similar Process Data